

# Parcel F Update

BCT Meeting  
Hunters Point Naval Shipyard

April 24, 2014

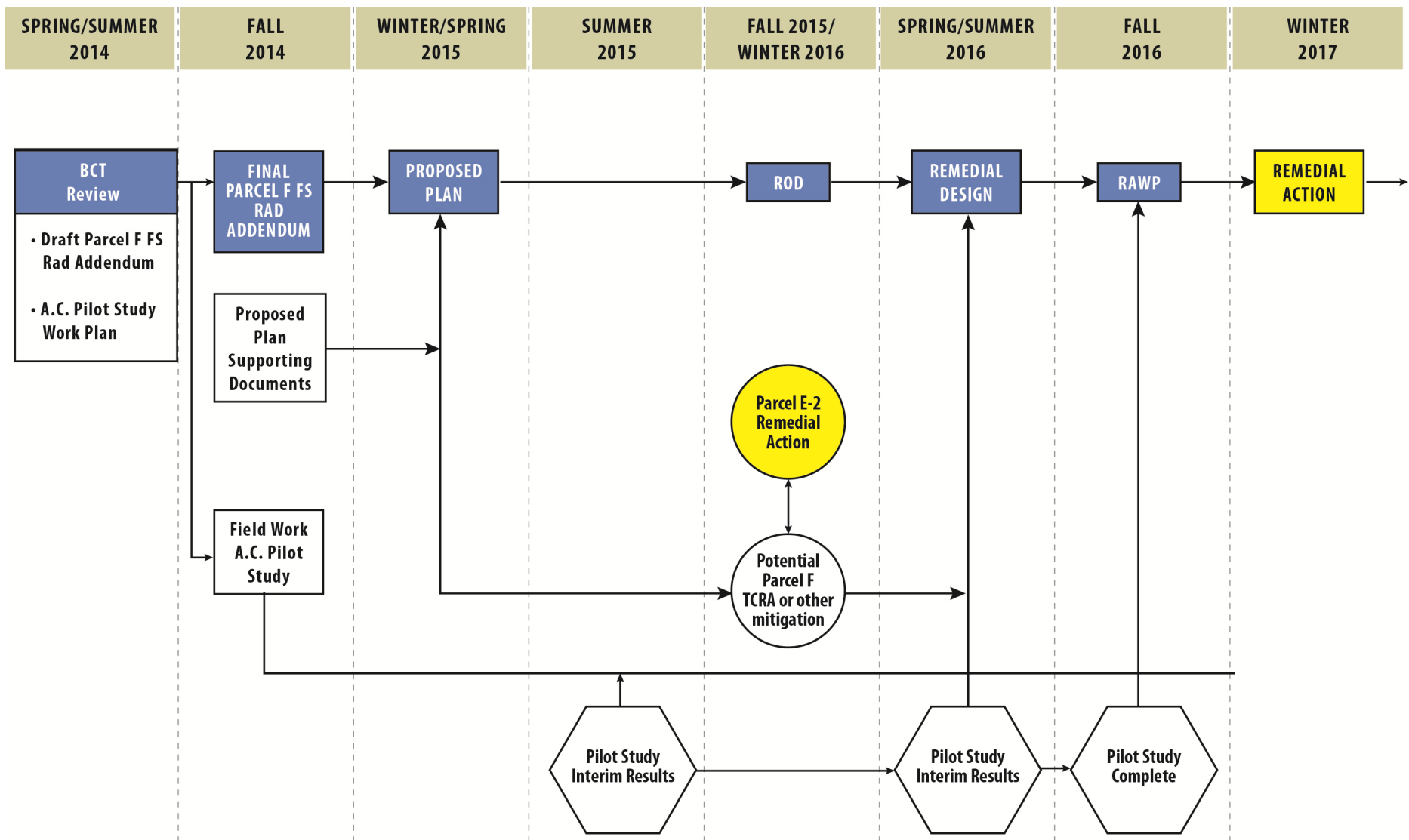
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# Overview – Parcel F



- Overview of Parcel F Activities
- FS Radiological Addendum Update
- Pilot Study Update

# Overview of Parcel F Activities



# **Radiological Feasibility Study Addendum**

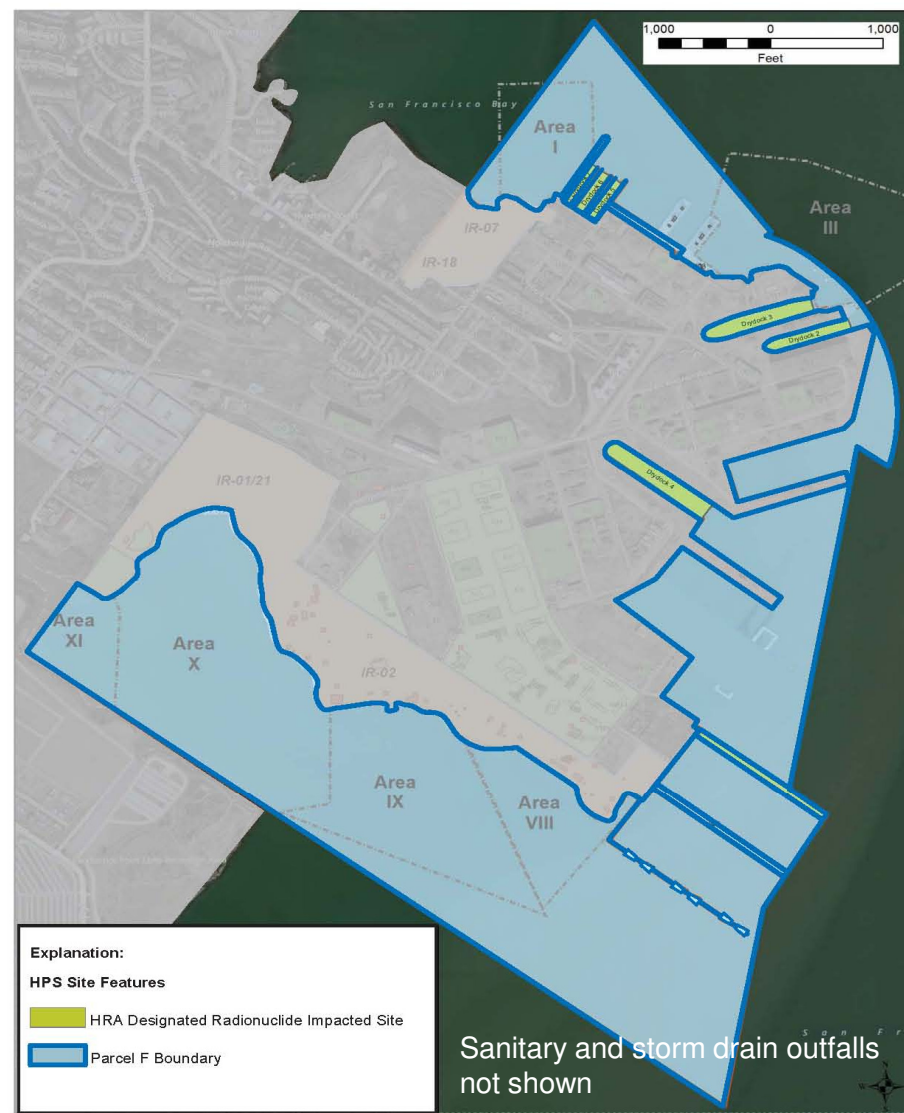
# Purpose & Scope of FS RAD Addendum



- Determine if Parcel F requires no further action for radionuclides
- Provide sufficient information to determine if radiological controls will be required

## Parcel F ROCs:

- Cs-137
- Pu-239
- Ra-226
- Sr-90
- U-235



# Purpose & Scope of FS RAD Addendum



- **Present available site data for Radionuclides of Concern (ROCs)**
- **Quantify cumulative risk to radionuclides and non-radiological chemicals**
- **Compare Alternatives for ROCs at Parcel F**

## **Preliminary Data Evaluation for PARCEL F Shows:**

- Complies with dose-based regulations
- Cumulative risk is acceptable
- Is suitable for no further action

# Components of FS RAD Addendum



- **Purpose and Scope**
- **Radiological History**
- **Previous Investigations**
- **Nature and Extent of ROCs in Sediment**
- **Risk**
- **Cumulative Risk (chemical and radiological)**
- **No Further Action**

# Evaluation



**This section will address the State of California requirements**

**The section will include the following based on characterization work performed at Parcel F:**

- 1. Determine if radiation at the site is consistent with background**
- 2. Calculate the residual dose**
- 3. Determine if site does requires further action**
- 4. Validate that the survey unit sizes and numbers of measurements used during the RAD FS Data Gaps are appropriate**
- 6. Conclude that reasonable effort has been made to properly characterize Parcel F for RAD**

**Parcel F  
Preliminary Evaluation:**

- Data is below PALs
- Net dose above background is 0 mrem/yr



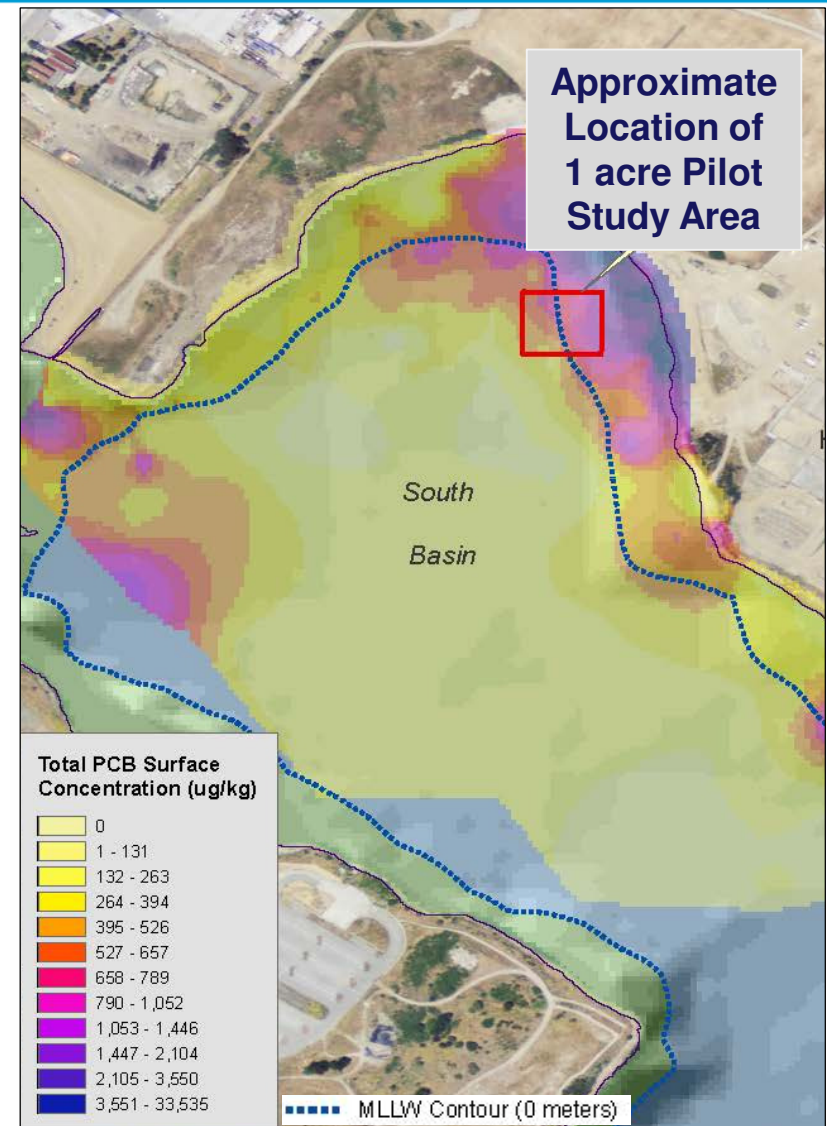
# Carbon Amendment Pilot Study

# Carbon Amendment Demonstration Pilot Study

## Primary Objectives



- Evaluate effectiveness of carbon amendments for treatment of PCB contaminated sediments
- Evaluate physical stability of the carbon amendments in subtidal and intertidal environments
- Evaluate the use of passive samplers as a tool for long-term performance monitoring
- Demonstrate added value of combined physical, chemical, and biological monitoring



# Carbon Amendment Placement



- Two different carbon amendments to be evaluated (currently considering AquaGate® and SediMite™)
- Each amendment to be dispersed uniformly throughout a target half - acre plot



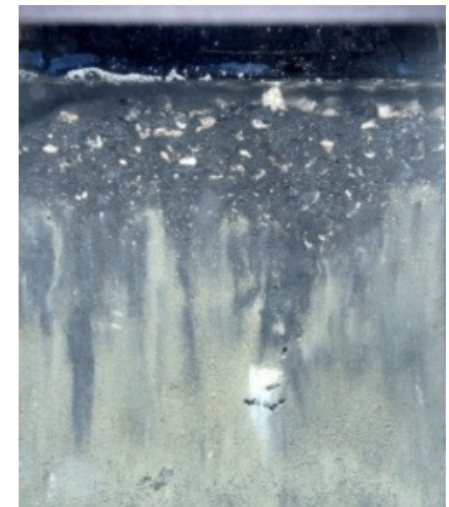
- Anticipate deployment of amendment via barge based telebelt or similar delivery system
- Over time the amendments will be worked into the sediment via bioturbation (currently no additional mixing is planned)



# Overview of Characterization and Monitoring Events



- **Baseline Characterization (1 event):**  
*To establish pre-amendment placement bioavailability and ecological conditions*
- **Initial Placement Monitoring (1 event):**  
*Within 1 month of placement, physical monitoring will be used to verify the amendments have been placed as expected within the study area*
- **Post-Placement Monitoring (3 events):**  
*Physical, biological, and chemical measurements will be conducted at 6, 12 and 24 months after placement to document amendment mixing, contaminant bioavailability, and ecological health*



# Schedule



Activity	Schedule
Draft FS RAD Addendum to BCT	June 24, 2014
Draft A.C. Pilot Study Work Plan to BCT	June 2014
BCT working meeting	June 2014
Draft Final FS RAD Addendum	September 2014
Final A.C. Pilot Study Work Plan with SAP	September 2014
Pilot Study Mobilization	October 2014
Final FS RAD Addendum	November 2014